

FIG. 1

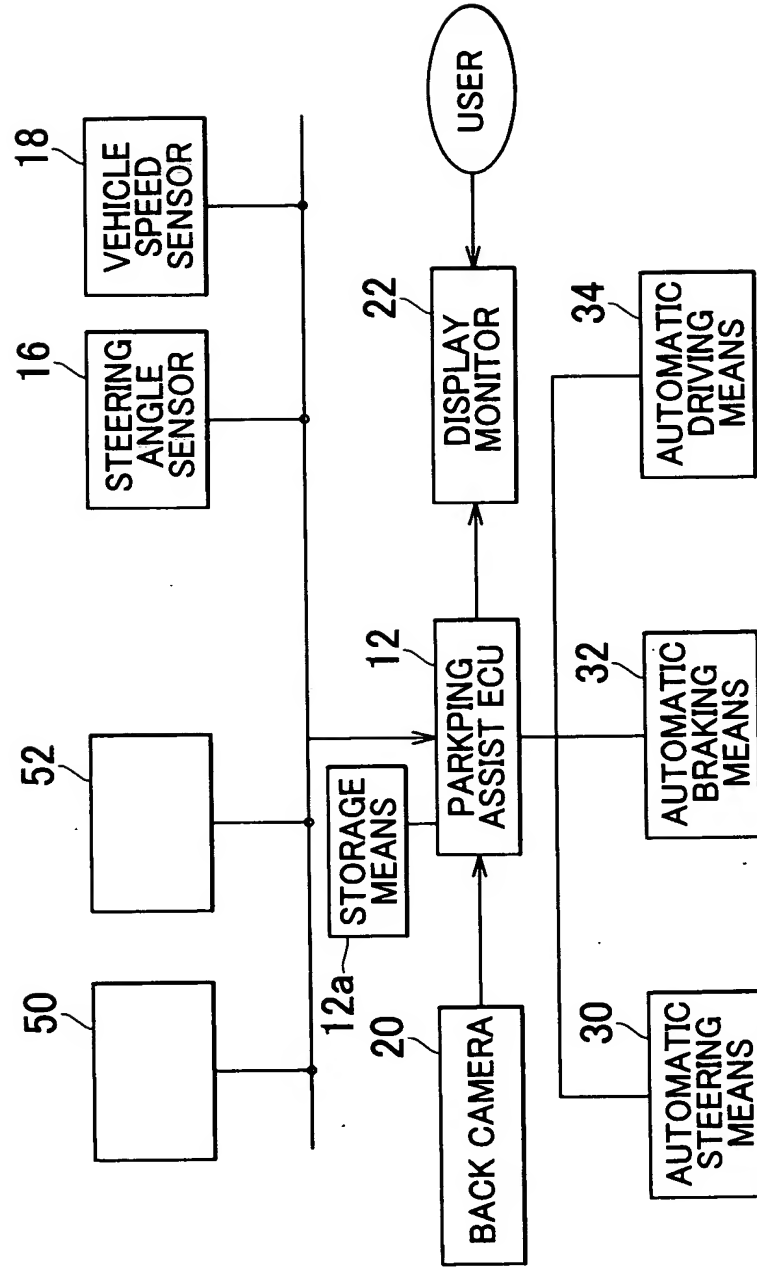


FIG. 2

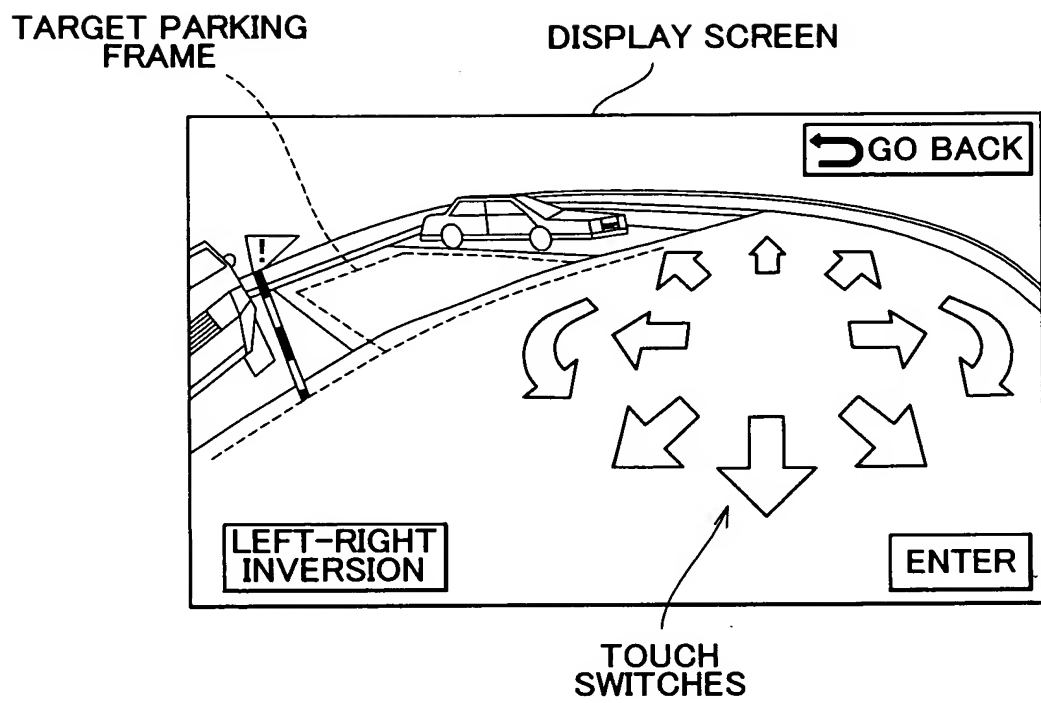
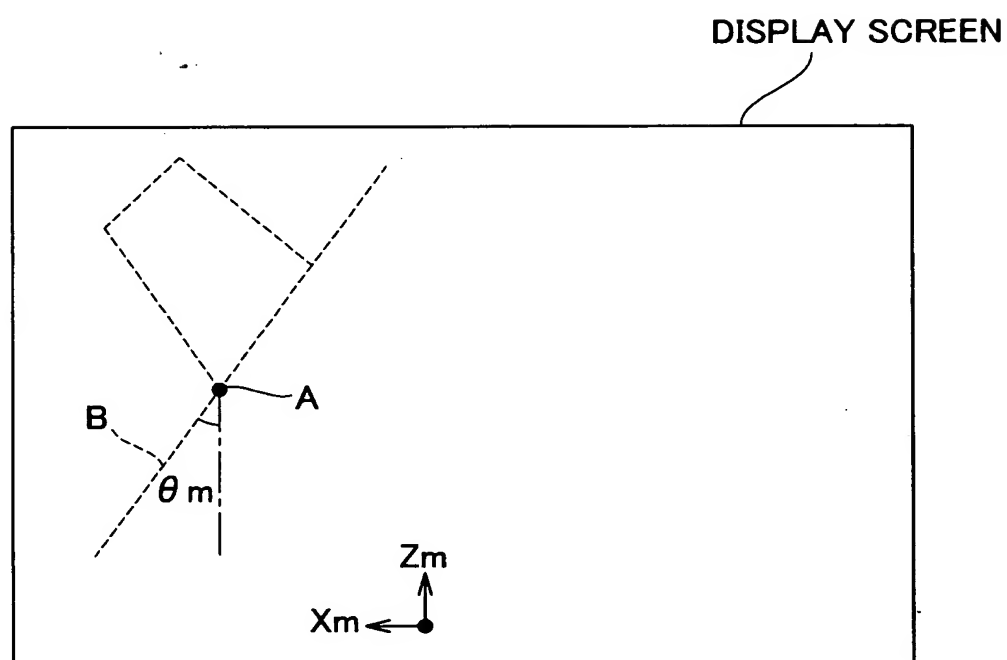
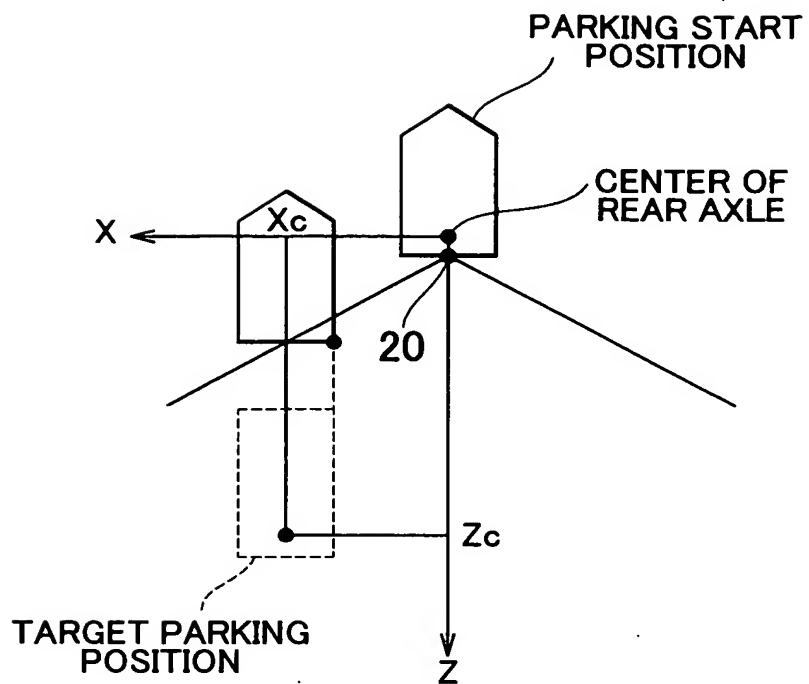


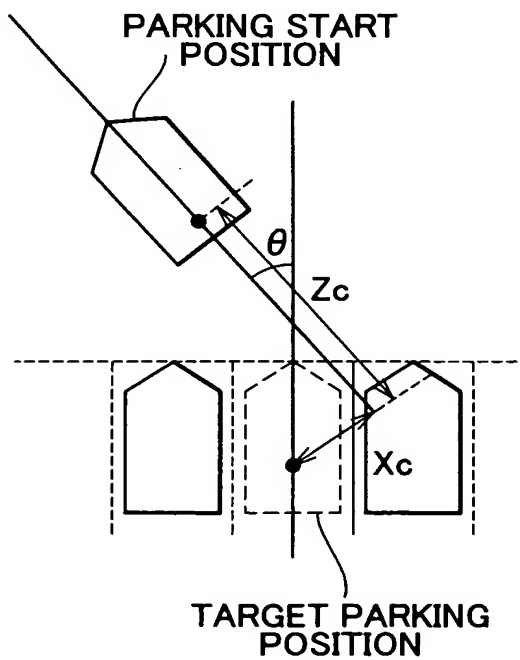
FIG. 3



# FIG. 4A



# FIG. 4B



# FIG. 5

$\theta$	$X_c$	$Z_c$
$-90 \sim -80$	$X_1$	$Z_1$
$-80 \sim -70$	$X_2$	$Z_2$
$-70 \sim -60$	$X_3$	$Z_3$
$\vdots$	$\vdots$	$\vdots$
$70 \sim 80$	$X_{17}$	$Z_{17}$
$80 \sim 90$	$X_{18}$	$Z_{18}$

```

graph TD
    START([START]) --> S100{GARAGE PARKING OR PARALLEL PARKING?}
    S100 -- PARALLEL PARKING --> S300[DETERMINE KIND OF PARALLEL PARKING]
    S100 -- GARAGE PARKING --> S200[ESTIMATE DEFLECTION ANGLE]
    S300 --> S310[RETRIEVE CONTROL PARAMETERS Xc, Zc IN ACCORDANCE WITH KIND OF PARKING]
    S310 --> S320[DETERMINE INITIAL POSITION OF TARGET PARKING FRAME]
    S320 --> S330{FRAME ADJUSTED BY USER?}
    S330 -- YES --> S335[STORE POST-ADJUSTMENT CONTROL PARAMETERS IN ACCORDANCE WITH SIGN OF Xc]
    S330 -- NO --> S340[CALCULATE TARGET PATH, ETC.]
    S335 --> S340
    S200 --> S210[RETRIEVE CONTROL PARAMETERS Xc, Zc IN ACCORDANCE WITH ESTIMATED DEFLECTION ANGLE]
    S210 --> S220[DETERMINE INITIAL POSITION OF TARGET PARKING FRAME]
    S220 --> S230{FRAME ADJUSTED BY USER?}
    S230 -- YES --> S235[STORE POST-ADJUSTMENT CONTROL PARAMETERS IN ACCORDANCE WITH DEFLECTION ANGLE]
    S230 -- NO --> S240[CALCULATE TARGET PATH, ETC.]
    S235 --> S240
    S340 --> END([END])
    S240 --> END
  
```

FIG. 7

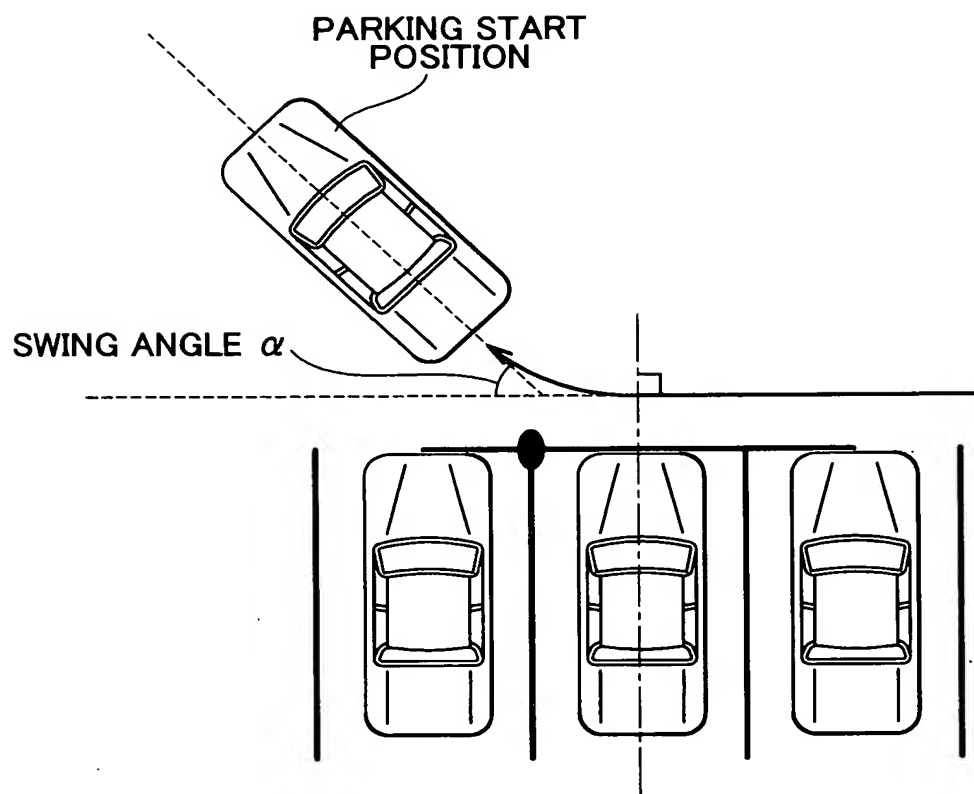
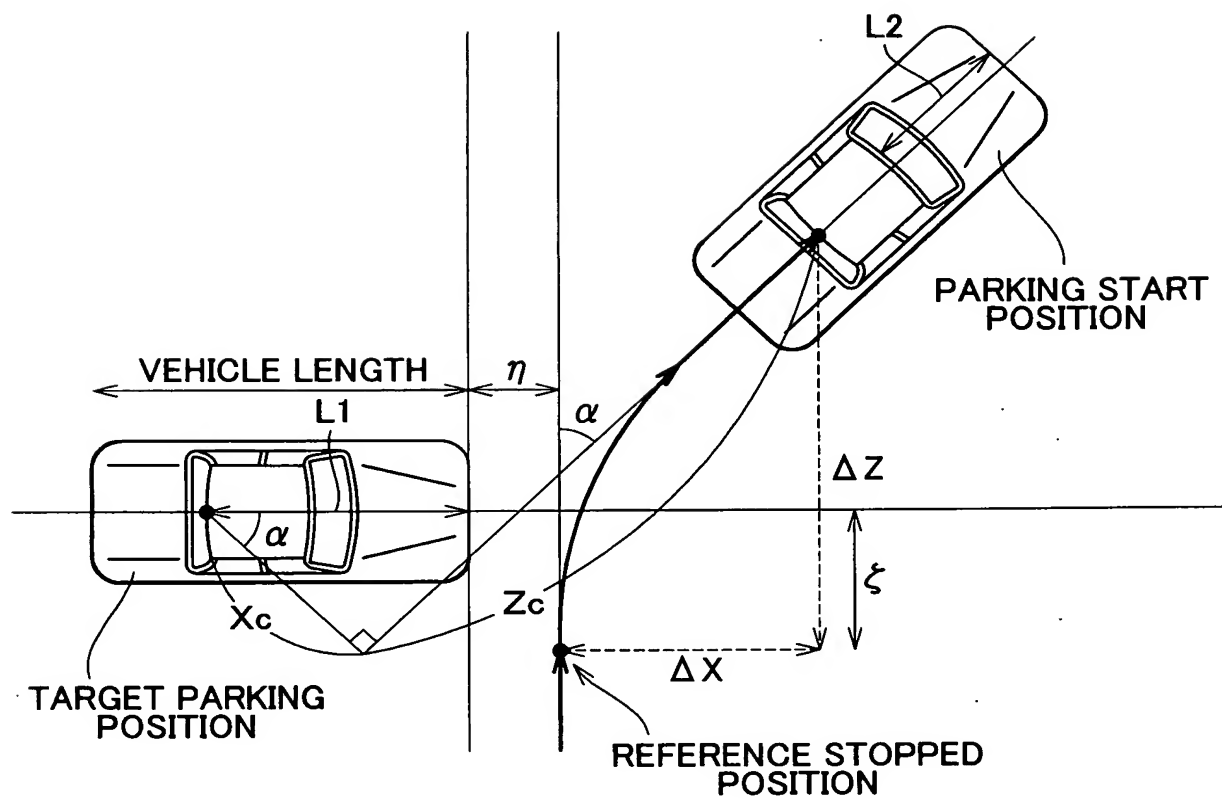
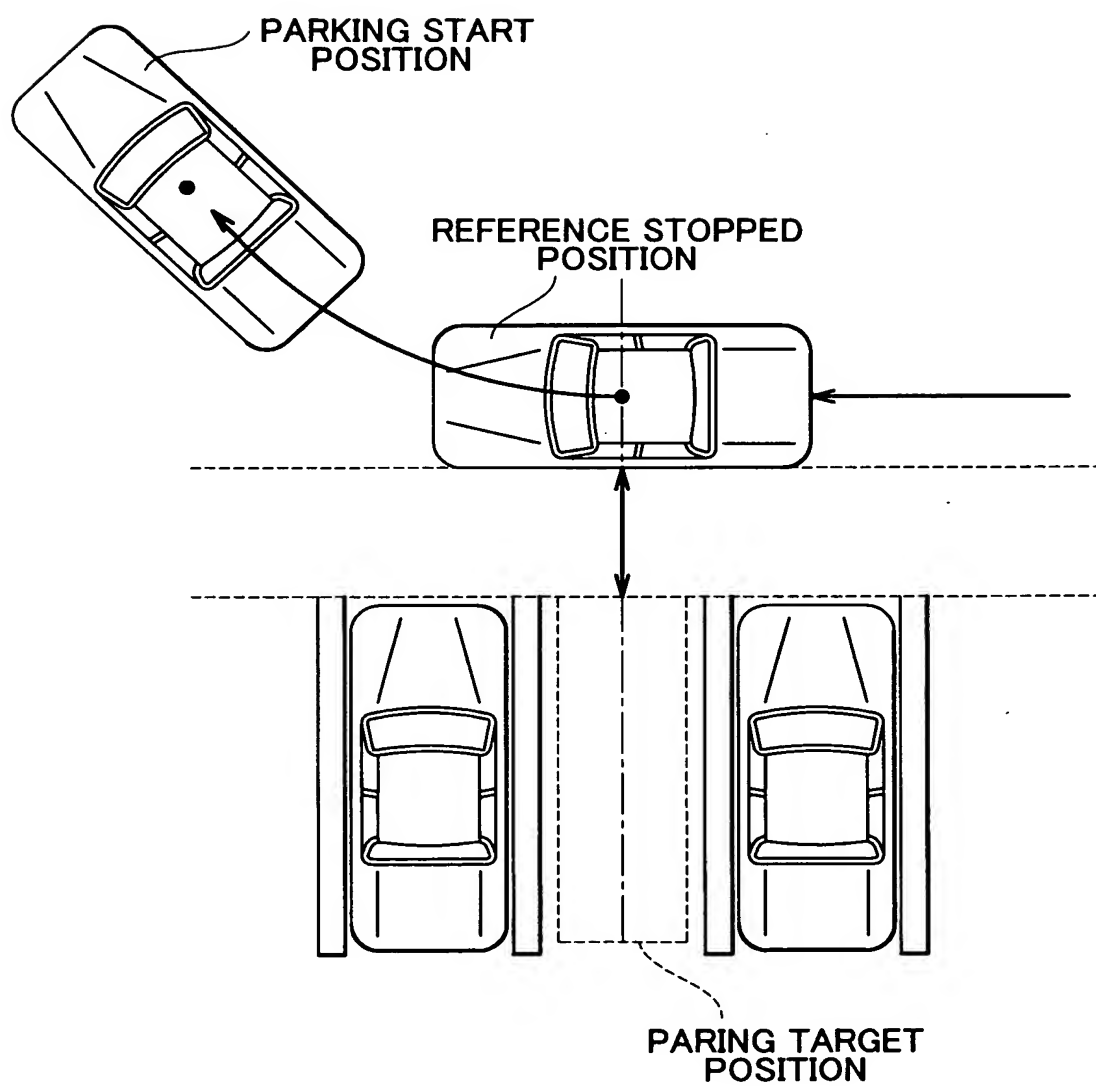


FIG. 8





# FIG. 9



# FIG. 10

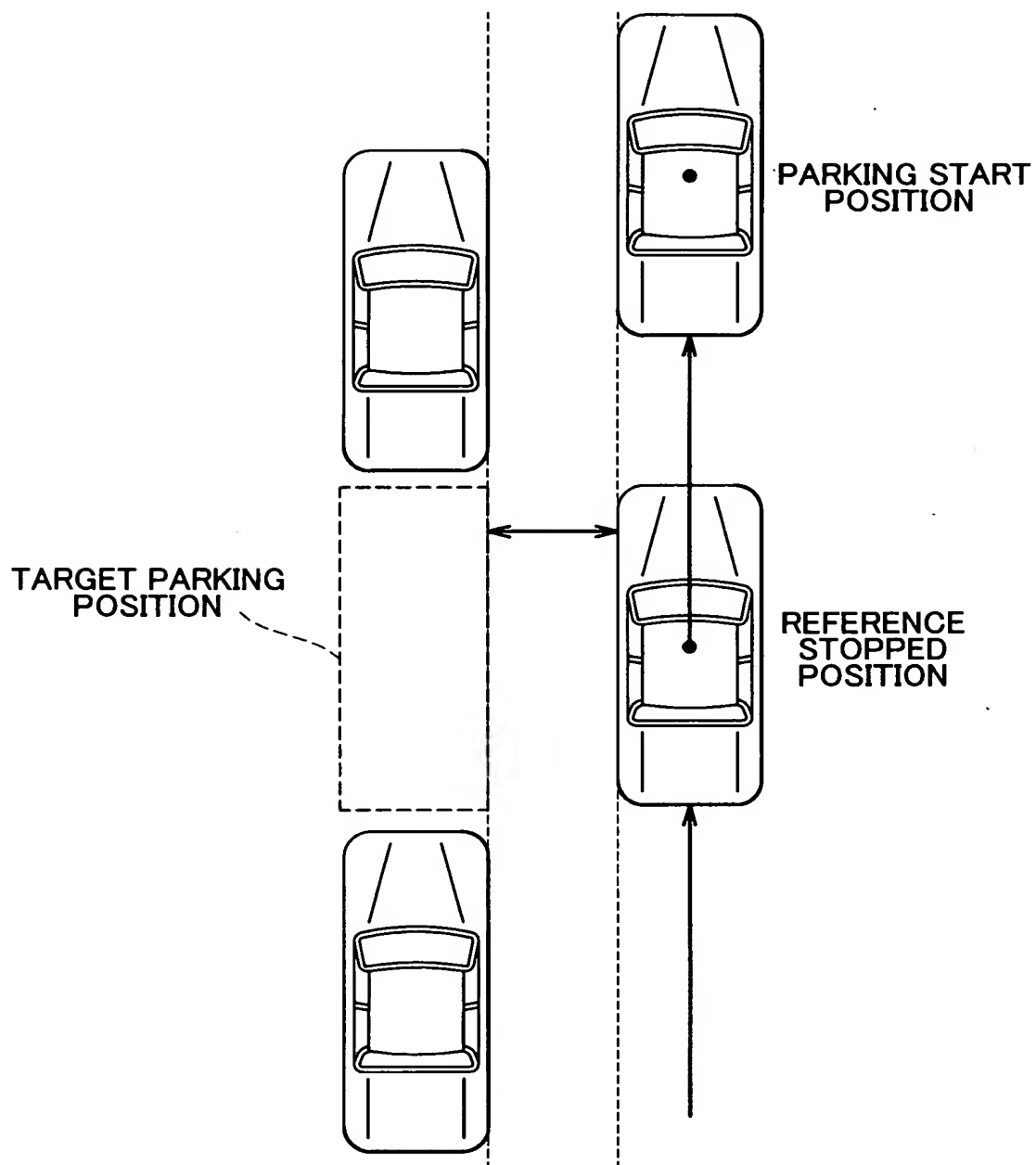


FIG. 11

